86 – 80

United States
Department of
Agriculture

National
Agricultural
Library

Beltsville
Maryland
20705

Quick Bibliography Series

SALMON RANCHING
1970-84

142 Citations
August 1986

NAL-BIBL. QB 86-80

Searched by:
DEBORAH T. HANFMAN
National Agricultural Library
Farming & Forestry Reference Branch
(301) 344-3704

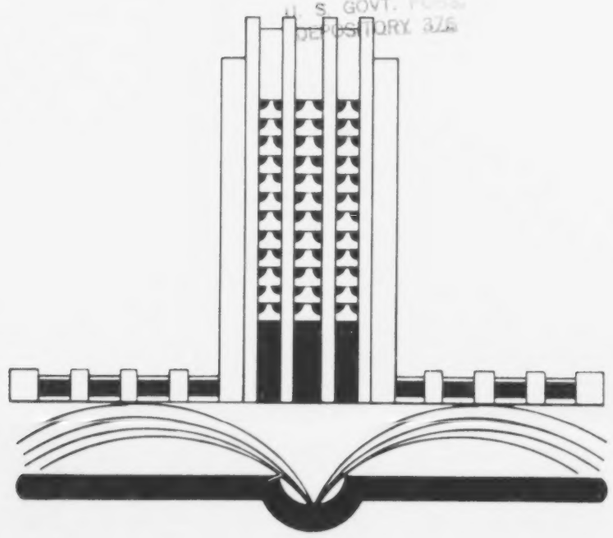
DATABASE SEARCHED: AGRICOLA

LANGUAGES: None Excluded

NEWARK PUBLIC LIBRARY

AUG 13 1986

U. S. GOVT. PUBLICATIONS
DEPOSITORY 326



A17.18/4:

Bibliographies in the Quick Bibliography Series of the National Agricultural Library, are intended primarily for current awareness, and as the title of the series implies, are not indepth exhaustive bibliographies on any given subject. However, the citations are a substantial resource for recent investigations on a given topic. They also serve the purpose of bringing the literature of agriculture to the interested user who, in many cases, could not access it by any other means. The bibliographies are derived from computerized on-line searches of the AGRICOLA data base. Timeliness of topic and evidence of extensive interest are the selection criteria.

The author/searcher determines the purpose, length, and search strategy of the Quick Bibliography. Information regarding these is available upon request from the author/searcher.

Copies of this bibliography may be made or used for distribution without prior approval. The inclusion or omission of a particular publication or citation may not be construed as endorsement or disapproval.

To request a copy of a bibliography in this series, send the title, series number and self-addressed gummed label to:

U.S. Department of Agriculture
National Agricultural Library
Public Services Division, Room 111
Beltsville, Maryland 20705

United States Department of Agriculture | National Agricultural Library | Public Services Division | Beltsville, Maryland 20705

DOCUMENT DELIVERY SERVICES TO INDIVIDUALS

The National Agricultural Library (NAL) has a unique responsibility to attempt to supply copies of agricultural publications not found elsewhere. Filling requests for materials readily available from other sources would divert its resources and diminish its ability to serve as a national source for agricultural and agriculturally related publications. Therefore, NAL should be viewed as a library of last resort and individuals should submit requests first to local or state sources prior to sending to NAL. Possible sources are the land-grant university or other large research libraries within a state. If the needed publications are not available from these sources, the requests may be submitted to NAL with a statement indicating their non-availability.

Individuals in other countries should submit requests through major university, national or provincial institutions.

LOAN SERVICE – Materials in the collection are loaned only to other ***libraries***. Requests for loans should be made through local public, academic or special libraries.

The following materials are **not** available for loan: serials (except USDA serials); rare, reference, and reserve books; microforms; and proceedings of conferences or symposiums. Photocopy or microform of non-circulating publications may be purchased as described below.

PHOTODUPLICATION SERVICE – Use "USDA Request for Photocopying" (form LF-607) which may be requested in advance from our Library. A ***separate form*** should be submitted for each article or item requested. Requests should be as complete as possible with a minimum of abbreviation. The source of the citation should be given. If the citation is from an NAL database (CAIN/AGRICOLA, ***Bibliography of Agriculture***, or the NAL catalog) and the call number is given, that call number should be listed in the proper block on the request form. Willingness to pay charges should be indicated on the form. Indicate compliance with copyright law or include a statement that the article is for research purposes only. Requests cannot be processed without these statements.

Rates are:

Electrostatic copy, microfilm and microfiche –
$ 5.00 for the first 10 pages or fraction copied from a single article or publication.
$ 3.00 for each additional 10 pages or fraction.

Duplication of NAL-owned microfilm – $ 10.00 per reel.

Duplication of NAL-owned microfiche– $ 5.00 for the first fiche and $ .50 for each additional fiche.

Billing – Fees include postage and handling, and are subject to change. Invoices are issued quarterly by the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161. Requesters are encouraged to establish deposit accounts with NTIS.
DO NOT SEND PREPAYMENT.

SEND REQUESTS TO – USDA, National Agricultural Library, Lending Branch, ILL, Beltsville, Maryland 20705. Questions concerning these services may be made by correspondence to Head, Lending Branch or by telephoning (301) 344-3755.

NOTE –

• Once requests have been accepted and processing has begun, requests cannot be cancelled. The appropriate charge for filling requests will be applied.

United States Department of Agriculture | National Agricultural Library | Public Services Division | Beltsville, Maryland 20705

DOCUMENT DELIVERY SERVICES AVAILABLE to Libraries and Other Information Centers and Commercial Organizations

The National Agricultural Library (NAL) accepts requests from libraries and other organizations in accordance with the national and international interlibrary loan code and guidelines. In its national role, NAL has a unique responsibility to attempt to supply copies of agricultural publications not found elsewhere. Filling requests for materials readily available from other sources would divert its resources and diminish its ability to serve as a national source for agricultural and agriculturally related publications. Therefore, NAL should be viewed as a library of last resort. Requestors should submit requests first to State/region/network sources prior to sending to NAL. Within the United States, possible sources are the land-grant university or other large research libraries within a state. Requesters in other countries should first try major university, national or provincial institutions. If the needed publications are not available from these sources, the requests may be submitted to NAL with a statement indicating their non-availability.

• Requests may be submitted on the American Library or the International Library interlibrary request form, by TWX (710-828-0506) or via the OCLC interlibrary loan subsystem. Our OCLC symbol is **AGL**, and we request that the symbol be entered twice. The complete name of the person authorizing the request is to appear on each form.

• The standard bibliographic source which lists the title as owned by NAL should be noted on each request. Requests for periodical articles should be verified. If verification is not possible, indicate the sources searched and give the sourceof the citation requested. Those requests which are verified or for which the citation source has been given receive a more thorough search. Unverified requests may be returned. If the citation is from an NAL database (CAIN/AGRICOLA, *Bibliography of Agriculture*, or the NAL catalog) and the call number is given, this call number should be included on the request.

LOAN SERVICE – Monographs published in the United States or abroad may be lent to U.S. libraries. Monographs published in the U.S. may be lent to libraries in other countries. The loan period is one month unless a shorter period is indicated on the due slip. The loan may be renewed for an additional month if there is no reserve request. The renewal request should be received prior to the due date. The borrowing library is responsible from the time of dispatch for any loss or damage incurred.

The following materials are **not** available for loan: serials (except for USDA serials), rare, reference and reserve books microforms, and proceedings of conferences or symposiums. Photocopy or microform of the non-circulating publications will be supplied automatically as described below if the requesting organization indicates that this is acceptable on the loan request form.

PHOTODUPLICATION SERVICE – A separate completed interlibrary form should be submitted for each article requested. Willingness to pay charges should be indicated on the form. Indicate compliance with copyright law or include a statement that the article is for research purposes only. Requests cannot be processed without these statements.

Rates are:

Electrostatic copy, microfilm and microfiche –
$ 5.00 for the first 10 pages or fraction copied from a single article or publication.
$ 3.00 for each additional 10 pages or fraction.

Duplication of NAL-owned microfilm – $ 10.00 per reel.

Duplication of NAL-owned microfiche– $ 5.00 for the first fiche and $ .50 for each additional fiche.

Billing – Fees include postage and handling, and are subject to change. Invoices are issued quarterly by the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161. Requesters are encouraged to establish deposit accounts with NTIS.
DO NOT SEND PREPAYMENT.

SEND REQUESTS TO – USDA, National Agricultural Library, Lending Branch, ILL, Beltsville, Maryland 20705. Questions concerning these services may be made by correspondence to Head, Lending Branch or by telephoning (301) 344-3755.

NOTE –
• Once requests have been accepted and processing has begun, requests cannot be cancelled. The appropriate charge for filling requests will be applied.

Form NAL-8A (10/84)

USDA Regional Document Delivery

Through agreements with the major land-grant libraries in select states, USDA Employees or libraries in those states may send their requests for document service directly to the land-grant university library for service. If the document cannot be supplied, it will be automatically forwarded to a larger regional land-grant library and a notice of this action sent back to the requestor. If the regional library cannot fill the request, it is forwarded to the National Agricutural Library (Utilization Section) for completion. This service exists in the following states, and Form AD-245 or the CALS printout form should be sent to these libraries. Phone numbers may be used for emergency services.

Alabama
Ralph Brown Draughon Library
Auburn University
Auburn, AL 36830 (205)826-4500

Arizona
Interlibrary Loans
University of Arizona Library
Tucson, AZ 85721 (602)626-1941

Arkansas
Interlibrary Loan
University of Arkansas
Fayetteville, AR 72701 (501)575-4101

California
Interlibrary Loans
University of California Library
Davis, CA 95616 (916)752-2251

Interlibrary Loans
Bio-Ag Science Libraries
University of California
Riverside, CA 92502 (714)787-3701

Colorado
Interlibrary Loans
Colorado State University Library
Ft. Collins, CO 80523 (303)491-5911

Florida
Hume Library
University of Florida
Gainesville, FL 32601 (904)392-1934

Georgia
Science Library
University of Georgia
Athens, GA 30601 (404)542-1315

Hawaii
Interlibrary Loans
Thomas Hale Hamilton Library
2550 The Mall
University of Hawaii
Honolulu, HI 96843 (808)948-8568

Idaho
University of Idaho Library
Moscow, ID 83843 (208)885-6559

Iowa
Interlibrary Loan
Iowa State University Library
Ames, IA 50010 (515)294-3642

Kansas
USDA Document Delivery
Kansas State University Library
Manhattan, KS 66506 (913)532-6516

Louisiana
Interlibrary Loans
Louisiana State University Library
Baton Rouge, LA 70803 (504)388-2138

Michigan
Document Delivery
Michigan State University Library
East Lansing, MI 48824 (517)355-7644

Minnesota
St. Paul Campus Library
University of Minnesota
St. Paul, MN 55108 (612)373-0968

Mississippi
Interlibrary Loans
Mitchell Memorial Library
Mississippi State University
Box 5408
Mississippi, MS 39762 (601)325-4225

Missouri
University of Missouri
1C31 Science
Ellis Library
Columbia, MO 65201 (314)882-2656

FEBRUARY 1984

Montana
Roland R. Renne Library
Montana State University
Bozeman, MT 59717 (406)994-3161

Interlibrary Loan (for Forest Service (ONLY)
Mansfield Library
University of Montana
Missoula, MT 53706 (406)262-9635

Nebraska
C. Y. Thompson Library
University of Nebraska, East Campus
Lincoln, NE 68503 (402)472-2802

Nevada
Life & Health Science Library
Fleischmann Agricultural Building
University of Nevada, Reno
Reno, NV 89557 (702)784-6616

New Mexico
Interlibrary Loans
New Mexico State University Library
P. O. Box 3475
Las Cruces, NM 88003 (505)646-4737

New York
Interlibrary Loan Services
Mann Library
Cornell University
Ithaca, NY 14850 (607)256-7754

North Carolina
Interlibrary Center
D. H. Hill Library
North Carolina State University
Raleigh, NC 27607 (919)737-2116

North Dakota
North Dakota State University Library
Fargo, ND 58102 (701)237-8885

Ohio
Interlibrary Loan
Ohio State University Library
1858 Neil Avenue Mall
Columbus, OH 43210 (614)422-6211

Oklahoma
Interlibrary Loans
Oklahoma State University Library
Stillwater, OK 74074 (405)624-6313

Oregon
Interlibrary Loans
Washington State University Library
Pullman, WA 99164 (509)335-2671

Pennsylvania
Interlibrary Loan Services
Mann Library
Cornell University
Ithaca, NY 14850 (607)256-7754

Puerto Rico
University of Puerto Rico
Agricultural Experiment Station Library
P. O. Box H
Rio Piedras, PR 00928 (809)767-9705

South Carolina
Interlibrary Loans
Robert Meldrow Cooper Library
Clemson University
Clemson, SC 29631 (803)656-3025

South Dakota
H. M. Briggs Library
P. O. Box 2115
South Dakota State University
Brookings, SD 57000 (605)688-5106

Tennessee
James D. Hoskins Library
University of Tennessee
Knoxville, TN 37916 (615)974-4240

Texas
Interlibrary Loans
University Library
Texas A&M University
College Station, TX 77843 (713)845-564

Utah
Interlibrary Loans
Merrill Library
Utah State University
Logan, UT 84322 (801)750-2680

Washington
Science & Engineering Library
Washington State University
Pullman, WA 99164 (509)335-2671

Wisconsin
Steenbock Memorial Library
University of Wisconsin
550 Babcock Drive
Madison, WI 53706 (608)262-9635

AGRICOLA

File 10

Contains citations to documents published later than January 1979.

0001
Advances in red salmon culture (Oncorhynchus nerka, infectious diseases, control).
Sullivan, J.R. Fairbanks, Alaska : Alaska Sea Grant College Program, Univ. of Alaska, 1982. Proceedings of the Third Alaska Aquaculture Conference, Cordova, Alaska, April 27-28, 1982 / edited by T. Frady. p. 81-84. (NAL Call No.: SH35.A62A68 1982).

0002
Advantages of selective breeding (Oncorhynchus, salmonid stocks).
Donaldson, L.R. Fairbanks, Alaska : Alaska Sea Grant College Program, Univ. of Alaska, 1982. Proceedings of the Third Alaska Aquaculture Conference, Cordova, Alaska, April 27-28, 1982 / edited by T. Frady. p. 85-91. Includes references. (NAL Call No.: SH35.A62A68 1982).

0003
Alaska's ranchers: fishermen join fish farmers to boost Pacific salmon runs (Hatcheries).
London, Arthur J. Heighway. Fish farming international. Dec 1980. v. 7 (4). p. 4-5. ill. (NAL Call No.: SH151.F5).

0004
Analysis of multiple objectives in Oregon coho salmon policy (Strategies with respect to allocation and production of wild and hatchery coho salmon).
Walker, K.D.JFRBA. ; Rettig, R.B.; Hilborn, R. Hull : Minister of Supply and Services Canada. Canadian journal of fisheries and aquatic sciences = Journal canadien des sciences halieutiques et aquatiques. May 1983. v. 40 (5). p. 580-587. Includes references. (NAL Call No.: 442.9 C16J).

0005
Analysis of relationships between hatchery coho salmon (Oncorhynchus kisutch) transplants and adult escapements in Oregon coastal watersheds.
McGie, A.M. Corvallis, Oregon Department of Fish and Wildlife, Research and Development Section. Information report series, fisheries. Dec 1980. Dec 1980. (80-6). 19 p. 10 ref. (NAL Call No.: SH1.I55).

0006
Analysis of the process of smoltification in different forms of genus Salmo in relation with the tasks of salmon farming. Russian.
Barannikova, I.A. ; Baiunova, N.N.; Murza, I.G.; Semenkova, T.B.; Chernitskii, A.G. Moskva : Nauka, 1983. Biologicheskie osnovy razvitiia lososevogo khoziaistva v vodoemakh SSSR / otvetstvennyi redaktor toma O.A. Skarlato. Literature review. p. 32-55. ill. Includes references. (NAL Call No.: SH167.S17B56).

0007
The application of recent smoltification research to public hatchery releases: an assessment of size/time requirements for Columbia River hatchery coho salmon (Oncorhynchus kisutch) (Washington State).
Mahnken, C. ; Prentice, E.; Waknitz, W.; Monan, G.; Sims, C.; Williams, J. Amsterdam, Elsevier Scientific Publishing. Aquaculture. June 1982. v. 28 (1/2). p. 251-268. ill. 2 p. ref. (NAL Call No.: SH1.A6).

0008
Aquaculture (Culture of channel catfish, trout, salmon, crawfish and other species in the United States).
Avault, J.W. Jr. Oxford, Boston, Blackwell Scientific Publications; New York, distributed in the U.S.A. and Canada by Halsted Press, 1980. Fisheries management, edited by Robert T. Lackey and Larry A. Nielsen. p. 379-411. ill. 15 ref. (NAL Call No.: SH328.F56).

0009
Areal distribution of marked Columbia River basin spring chinook salmon recovered in fisheries and at parent hatcheries (Oncorhynchus tshawytscha).
Wahle, R.J. ; Chaney, E.; Pearson, R.E. Washington, D.C., Scientific Publications Office, National Marine Fisheries Service. Marine fisheries review. Dec 1981. v. 43 (12). p. 1-9. ill., map. Includes 14 ref. (NAL Call No.: 157.5 F532).

0010
Bacteria associated with fin rot disease in hatchery-reared Atlantic salmon (Salmo salar).
Schneider, R. ; Nicholson, B.L. Ottawa, Govt. of Canada, Fisheries and Oceans. Canadian journal of fisheries and aquatic sciences. = Journal canadien des sciences halieutiques et aquatiques. Oct 1980. v. 37 (10). p. 1505-1513. ill. 15 ref. (NAL Call No.: 442.9 C16J).

0011
Biological basis for the inclusion of mysids in the diet of salmon cultivated in mariculture in Maritime Territory (Neomysis mirabilis, Neomysis intermedia, Oncorhynchus).
Chaga, I.L. ; Karedin, E.P. New York, Consultants Bureau. The Soviet journal of marine biology. Nov/Dec 1981. Translated from: Biologiia moria, p. 67-72. (QH91.A1S58). v. 7 (6). p. 388-392. 18 ref. (NAL Call No.: QH91.A1S6).

0012
Biological fundamentals in the development of salmon production in the reservoirs of the U.S.S.R. Biologicheskie osnovy razvitiia lososevogo khoziaistva v vodoemakh SSSR / otvetstvennyi redaktor toma O.A. Skarlato. Russian.
; Skarlato, O. A. Moskva Nauka 1983. On leaf preceding t.p.: Akademiia nauk SSSR. Sektsiia khimiko-tekhnologicheskikh i biologicheskikh nauk. Zoologicheskii

institut. Nauchnyi sovet po problemam gidrobiologii, ikhtiologii i ispol'zovaniia biologicheskikh resursov vodoemov. Komissiia po problemam Mirovogo okeana. Ministerstvo rybnogo khoziaistva SSSR. Ikhtiologicheskaia komissiia. Vsesoiuznyi nauchno-issledovatel'skii institut morskogo rybnogo khoziaistva i okeanografii. 255 p. : ill. ; 22 cm. -. Includes bibliographies. (NAL Call No.: SH167.S17B56).

0013
Breeding-genetic aspects of hatchery rearing of the Atlantic salmon Salmo salar L. Russian.
Kazakov, R.V. Leningrad : Institut. Sbornik Nauchnykh Trudov - Gosudarstvennyi nauchno-issledovatel'skii institut ozernogo i rechnogo rybnogo khoziaistva. 1980. Literature review. v. 154. p. 3-10. Includes references. (NAL Call No.: 414.9 L54I).

0014
Buoyancy comparisons between juvenile Atlantic salmon and brown trout of wild and hatchery origin (Habitats, behaviour).
Sosiak, A.J.TAFSA. Lawrence : The Society. Transactions of the American Fisheries Society. May 1982. v. 111 (3). p. 307-311. 18 ref. (NAL Call No.: 414.9 AM3).

0015
Canadian perspectives on salmon ranching.
Sandercock, F.K. Fairbanks, Alaska : Alaska Sea Grant College Program, Univ. of Alaska, 1982. Proceedings of the Third Alaska Aquaculture Conference, Cordova, Alaska, April 27-28, 1982 / edited by T. Frady. p. 75-79. (NAL Call No.: SH35.A62A68 1982).

0016
Characteristics of a population of Salmonidae (Salmo salar and Salmo trutta) ascending a tributary of the Elorn River (North Brittany) during the 1979-1980 reproductive period (Growth, maturation, migration, spawning, France). Caracteristiques d'une population de salmonides (Salmo salar et Salmo trutta) remontant sur un affluent de l'Elorn (riviere de Bretagne-nord) pendant la periode de reproduction 1979-1980.
Prouzet, P. Boves, France, Centre du Paraclet. Bulletin francais de pisciculture. 1981. 1981. (283). p. 140-154. ill. 2 p. ref. (NAL Call No.: 414.8 B87).

0017
Cold-water vibriosis or 'Hitra disease' in Norwegian salmonid farming (Salmo salar, Salmo gairdneri, Vibrio anguillarum).
Egidius, E. ; Andersen, K.; Clausen, E.; Raa, J. Oxford, Blackwell Scientific. Journal of fish diseases. July 1981. v. 4 (4). p. 353-354. (NAL Call No.: SH171.A1J68).

0018
Comparative study of eggs coming from wild and reared coho salmon and analysis of the muscles and liver of reared male and female breeders. Etude comparee d'oeufs issus de cohos sauvages et de cohos d'elevage et analyses de muscles et de foies de geniteurs males et femelles d'elevage.
Stephan, G. ; Lamour, F. Lyon, La Societe. Bulletin de la Societe des sciences veterinaires et de medecine comparee de Lyon. 1980. v. 82 (5). p. 257-266. 23 ref. (NAL Call No.: 41.9 L99).

0019
Conflicts in salmon harvest (United States, New Zealand).
Galat, J.R. Wellington, New Zealand Ministry of Agriculture and Fisheries. Occassional publication - Fisheries Research Division. 1981. 1981. (30). p. 88-90. (NAL Call No.: SH318.5.A1N4).

0020
Culture of sockeye salmon (Oncorhynchus nerka) smolts in estuarine net pens and returns of adults from two smolt releases (Alaska).
Wertheimer, A.C.AQCLA. ; Heard, W.R.; Martin, R.M. Amsterdam : Elsevier Scientific Publishing. Aquaculture. May 1983. v. 32 (3/4). p. 373-381. ill., maps. Includes references. (NAL Call No.: SH1.A6).

0021
Dependence of the quality of the semen of Atlantic salmon males fromthe intensity of their use at fish hatcheries (Salmo salar). Russian.
Kazakov, R.V. Leningrad : Institut. Sbornik Nauchnykh Trudov - Gosudarstvennyi nauchno-issledovatel'skii institut ozernogo i rechnogo rybnogo khoziaistva. 1979. v. 139. p. 49-61. ill. Includes references. (NAL Call No.: 414.9 L54I).

0022
The development of salmon culture towards ranching (Scotland).
Thorpe, J.E. London; New York, Academic Press, 1980. Salmon ranching, edited by John Thorpe. p. 1-11. Bibliography p. 9-11. (NAL Call No.: SH167.S17S26).

0023
Diel pattern of plasma T3 and T4 levels in Baltic salmon parr (Salmo salar L.) during two seasons (Study done in a fish hatchery, Sweden).
Rydevik, M. ; Lindahl, K.; Fridberg, G. Ottawa, Canada : National Research Council of Canada. Canadian journal of zoology = Journal canadien de zoologie. Apr 1984. v. 62 (4). p. 643-646. Includes references. (NAL Call No.: 470 C16D).

0024
Differences in the amount and distribution of genetic variation between natural populations and hatchery stocks of Atlantic salmon (Salmo salar).
Stahl, G.AQCLA. Amsterdam : Elsevier Scientific Publishing. Aquaculture. June

1983. Paper presented at the International Symposium on Genetics in Aquaculture, University College, Galway, Ireland, 29 March to 2 April 1982. v. 33 (1/4). p. 23-32. maps. Includes references. (NAL Call No.: SH1.A6).

0025
Digestive proteases of Atlantic salmon (Salmo salar) from different river strains: development after hatching, rearing temperature effect and effect of sex and maturation.
Torrissen, K.R. ; Torrissen, O.J. Oxford : Pergamon Press. Comparative biochemistry and physiology. B: Comparative biochemistry. 1984. v. 77 (1). p. 15-20. ill. Includes references. (NAL Call No.: QP501.C6).

0026
Diseases in salmon hatcheries (New Zealand).
Boustead, N.C. Wellington, New Zealand Ministry of Agriculture and Fisheries. Occassional publication - Fisheries Research Division. 1981. 1981. (30). p. 73-77. ill. Includes 2 ref. (NAL Call No.: SH318.5.A1N4).

0027
An economic demand model for Canadian salmon (Price elasticity, income elasticity, cross-price elasticity, market).
DeVoretz, D. Ottawa, Can., Canadian Agricultural Economics Society. Canadian journal of agricultural economics = Revue Canadienne d'economie rural. Mar 1982. v. 30 (1). p. 49-59. 13 ref. (NAL Call No.: 281.8 C16).

0028
Economic feasibility model for the Alaska salmon enhancement program.
Hartman, J. ; Rawson, K. Fairbanks, Alaska : Alaska Sea Grant College Program, Univ. of Alaska, 1982. Proceedings of the Third Alaska Aquaculture Conference, Cordova, Alaska, April 27-28, 1982 / edited by T. Frady. p. 47-57. ill. Includes references. (NAL Call No.: SH35.A62A68 1982).

0029
The economics of salmon ranching.
Stokes, R.L. Madison : University of Wisconsin Press. Land economics. Nov 1982. v. 58 (4). p. 464-477. Includes 39 references. (NAL Call No.: 282.8 J82).

0030
Effect of culture conditions on skull morphology in smolts of the masu salmon, Oncorhynchus masou (Brevoort).
AQCLA. Romanov, N.S. Amsterdam : Elsevier Scientific Publishing. Aquaculture. Sept 15, 1984. v. 41 (2). p. 147-153. ill. Includes references. (NAL Call No.: DNAL SH1.A6).

0031
The effect of feeding thyroid hormones on saltwater tolerance and growth rate of Atlantic salmon (Salmo salar, Promotion of growth and survival prior to smoltification, fish farming).
Refstie, T.CJZOA. Ottawa : National Research Council of Canada. Canadian journal of zoology = Journal canadien de zoologie. Nov 1982. v. 60 (11). p. 2706-2712. 2 p. ref. (NAL Call No.: 470 C16D).

0032
Effect of polybrene on the infectivity of infectious haemopoietic necrosis virus in tissue culture (Young trout and salmon species).
Leong, J.C. ; Fendrick, J.L.; Youngman, S.; Lee, A. Oxford, Blackwell Scientific. Journal of fish diseases. July 1981. v. 4 (4). p. 335-344. ill. 16 ref. (NAL Call No.: SH171.A1J68).

0033
Effect of protein supplement on blood plasma amino acids of coho salmon in culture in seawater during summer (Oncorhynchus kisutch).
Gras, J.AQCLA. ; Aldrin, J.F.; Gudefin, Y.; Chagny, F.; Perrier, H. Amsterdam : Elsevier Scientific Publishing. Aquaculture. May 1983. v. 32 (3/4). p. 397-400. Includes references. (NAL Call No.: SH1.A6).

0034
Effects of dewatering on chinook salmon redds: tolerance of four developmental phases to daily dewaterings (Salmon, aquaculture, fish culture, equipment, tides, water circulation).
Becker, C.D.TAFSA. ; Neitzel, D.A.; Fickeisen, D.H. Lawrence : The Society. Transactions of the American Fisheries Society. Sept 1982. v. 111 (5). p. 624-637. ill. 2 p. ref. (NAL Call No.: 414.9 AM3).

0035
Enlightened management of aquatic biota (Salmon, aquaculture).
Hasler, A.D. London; New York, Macmillan, 1980. Growth without ecodiasters? proceedings of the Second International Conference on Environmental Future (2nd ICEF) held in Reykjavik, Iceland, 5-11 June 1977, edited by Nicholas Polunin. p. 109-133. ill., maps. 18 ref. (NAL Call No.: GF3.I37 1977).

0036
Estimating escapement of Pacific salmon: marking practices to discriminate wild and hatchery fish (Monitoring, fishery resources, methods, sampling, aquaculture).
Hankin, D.G.TAFSA. Lawrence : The Society. Transactions of the American Fisheries Society. May 1982. v. 111 (3). p. 286-298. ill. 18 ref. (NAL Call No.: 414.9 AM3).

0037
Estimation of disease incidence in fish populations (Hatchery of juvenile Pacific salmon, Oncorhynchus spp.).
Worlund, D.D. ; Taylor, G. Hull, Quebec : Minister of Supply and Services Canada. Canadian journal of fisheries and aquatic sciences = Journal canadien des sciences halieutiques et aquatiques. Dec 1983. v. 40 (12). p. 2194-2197. Includes references. (NAL Call No.:

442.9 C16J).

0038
An experiment on the feasibility of rehabilitating acidified Atlantic salmon habitat in Nova Scotia by the addition of lime.
White, W.J. ; Watt, W.D.; Scott, C.D. Bethesda : American Fisheries Society. Fisheries : A bulletin of the American Fisheries Society. Jan/Feb 1984. Paper presented at the Symposium on Mitigation Techniques for Acidified Surface Waters, Milwaukee, Wisconsin, AUgust 19, 1983. v. 9 (1). p. 25-30. ill., maps. Includes references. (NAL Call No.: SH1.F54).

0039
Extensive rearing of Atlantic salmon (Salmo salar L.) yearlings in the Boucheron pond (Correze). Production extensive de jeunes saumons atlantiques (Salmo salar L.) d'un an dans l'etang du Boucheron (Correze). French.
Dumas, J.BFPIA. (Paris) : Conseil Superieur de la Peche. Bulletin francais de pisciculture. Third Quarter 1981. Third Quarter 1981. (282). p. 20-29. maps. Includes references. (NAL Call No.: 414.8 B87).

0040
The farming of Atlantic salmon in floating sea pens.
Young, R. New York, Springer-Verlag. Nahrung aus dem Meer. = Food from the sea. 1981. 1981. p. 41-49. (NAL Call No.: TX385.N3).

0041
Feeding success of hatchery-reared kokanee salmon when presented with zooplankton prey (Oncorhynchus nerka).
Vinyard, G.L. ; Drenner, R.W.; Hanzel, D.A. (s.l.), United States Fish and Wildlife Service. The Progressive fish culturist. Jan 1982. v. 44 (1). p. 37-39. Includes 24 ref. (NAL Call No.: 157.5 P94).

0042
Fin erosion and culture-related injuries of chinook salmon raised in floating net pens (Oncorhynchus ishawytscha).
Moring, J.R.PFCUA. Fort Collins : The Service. The Progressive fish culturist - United States, Fish and Wildlife Service. Oct 1982. v. 44 (4). p. 189-191. Includes references. (NAL Call No.: 157.5 P94).

0043
Fish farming in Norway: competition for Pacific salmon? (Salmo salar).
Hansen, F. ; Lent, R. Little Rock, Ark, Briggs Associates, Inc. Aquaculture magazine. May/June 1982. v. 8 (4). p. 34-36. ill. (NAL Call No.: SH1.C65).

0044
The future of salmon aquaculture development in Alaska.
Roys, R.S. Fairbanks, Alaska : Alaska Sea Grant College Program, Univ. of Alaska, 1982. Proceedings of the Third Alaska Aquaculture Conference, Cordova, Alaska, April 27-28 1982 / edited by T. Frady. p. 11-13. (NAL Call No.: SH35.A62A68 1982).

0045
Genetic effects of hatchery rearing in Atlantic salmon (Salmo salar).
Cross, T.F.AQCLA. ; King, J. Amsterdam : Elsevier Scientific Publishing. Aquaculture. June 1983. Paper presented at the International Symposium on Genetics in Aquaculture, University College, Galway, Ireland, 29 March to 2 April 1982. v. 33 (1/4). p. 33-40. Includes references. (NAL Call No.: SH1.A6).

0046
Genetic factors in connection with age at maturation (Atlantic salmon and rainbow trout).
Naevdal, G.AQCLA. Amsterdam : Elsevier Scientific Publishing. Aquaculture. June 1983. Paper presented at the International Symposium on Genetics in Aquaculture, University College, Galway, Ireland, 29 March to 2 April 1982. v. 33 (1/4). p. 97-106. ill. Includes references. (NAL Call No.: SH1.A6).

0047
Growth, biomass, and production of juvenile Atlantic salmon (Salmo sala L.) in two Miramichi River, New Brunswick, tributary streams (Canada).
Randall, R.G. ; Paim, U. Ottawa, Can., National Research Council of Canada. Canadian journal of zoology = Journal canadien de zoologie. July 1982. v. 60 (7). p. 1647-1659. map. 1 p. ref. (NAL Call No.: 470 C16D).

0048
Growth of a salmon farm.
Cooke, B.W.C. London, IPC Magazines. Country life. Sept 25, 1980. v. 168 (4336). p. 1057-1058. ill. (NAL Call No.: 80 C83).

0049
Growth of three salmonid species in mono and double culture (Salmo salar L., Salmo trutta L. and Salmo gairdneri Rich.).
Mork, O.I. Amsterdam, Elsevier Scientific Publishing. Aquaculture. Mar 1982. v. 27 (2). p. 141-147. Includes 3 ref. (NAL Call No.: SH1.A6).

0050
The harvest of hatchery and wild fall chinook salmon in 1974 from Elk River, Oregon / Reese E. Beuder, Alan M. McGie.
Bender, Reese E. Corvallis Oregon Dept. of Fish and Wildlife, Research and Development Section 1978. 17 leaves : ill. -. Bibliography: leaf 17. (NAL Call No.: SH1.I55 No.78-6).

0051
Homing and straying in chinook salmon (Oncorhynchus tshawytscha) from Cowlitz River hatchery, Washington.
JFRBA. Quinn, T.P. ; Fresh, K. Hull, Quebec : Minister of Supply and Services Canada. Canadian journal of fisheries and aquatic sciences = Journal canadien des sciences halieutiques et aquatiques. 1984. v. 41 (7). p. 1078-1082. ill., maps. Includes references. (NAL Call

No.: DNAL 442.9 C16J).

0052
Iceland looks to Atlantic salmon ranching.
Hjul, P. London, Arthur J. Heighway. Fish farming international. Mar 1981. v. 8 (1). p. 8-10. ill., maps. (NAL Call No.: SH151.F5).

0053
Ichthyophthiriasis (ciliated protozoan, Ichthyophthirius multifiliis) of Atlantic salmon, Salmo salar L., at the Montta hatchery in northern Finland in 1978-1979.
Valtonen, E.T. ; Keranen, A.L. Oxford, Blackwell Scientific. Journal of fish diseases. Sept 1981. v. 4 (5). p. 405-411. ill., map. 13 ref. (NAL Call No.: SH171.A1J68).

0054
Impact on wild salmon runs by Oregon's ranching industry.
Himsworth, D. Little Rock, Ark., Briggs Associates, Inc. Aquaculture magazine. Jan/Feb 1981. v. 7 (2). p. 12-16. ill. (NAL Call No.: SH1.C65).

0055
In vitro induction of final maturation of oocytes from coho salmon (Oncorhynchus, Pacific salmon, oogenesis, ova, ovulation, gonadotropins, progestational hormones).
Sower, S.A.TAFSA. ; Schreck, C.B. Lawrence : The Society. Transactions of the American Fisheries Society. May 1982. v. 111 (3). p. 399-403. ill. 12 ref. (NAL Call No.: 414.9 AM3).

0056
Influence of hatchery experience on growth and behavior of juvenile Atlantic salmon (Salmo salar) within allopatric and sympatric stream populations.
Dickson, T.A.JFRBA. ; MacCrimmon, H.R. Hull : Minister of Supply and Services Canada. Canadian journal of fisheries and aquatic sciences = Journal canadien des sciences halieutiques et aquatiques. Nov 1982. v. 39 (11). p. 1453-1458. Includes references. (NAL Call No.: 442.9 C16J).

0057
Influence of hatchery smolt releases on adult salmon production and its variability.
McCarl, B.A. ; Rettig, R.B. Hull, Quebec : Minister of Supply and Services Canada. Canadian journal of fisheries and aquatic sciences = Journal canadien des sciences halieutiques et aquatiques. Nov 1983. v. 40 (11). p. 1880-1886. Includes references. (NAL Call No.: 442.9 C16J).

0058
Influence of parental smolt age and sea age on growth and smolting of hatchery-reared Atlantic salmon (Salmo salar) (genetics).
Bailey, J.K. ; Saunders, R.L.; Buzeta, M.I. Ottawa, Govt. of Canada, Fisheries and Oceans. Canadian journal of fisheries and aquatic sciences. = Journal canadien des sciences halieutiques et aquatiques. Sept 1980. v. 37 (9). p. 1379-1386. ill., map. 12 ref. (NAL Call No.: 442.9 C16J).

0059
Interstate and international management applications of salmon hatchery production (Alaska, Canada, Japan, USSR).
Roys, R.S.NAWTA. Washington : Wildlife Management Institute. Transactions of the ... North American Wildlife and Natural Resources Conference. 1982. 1982. (47th). p. 641-647. ill. Includes references. (NAL Call No.: 412.9 N814).

0060
An investigation of the relationship between Oregon coho salmon (Oncorhynchus kisutch) hatchery releases and adult production utilizing law of the minimum regression.
Clark, J.JFRBA. ; McCarl, B. Hull : Minister of Supply and Services Canada. Canadian journal of fisheries and aquatic sciences = Journal canadien des sciences halieutiques et aquatiques. Apr 1983. v. 40 (4). p. 516-523. Includes references. (NAL Call No.: 442.9 C16J).

0061
Isolation and identification of an atypical Aeromonas salmonicida strain causing epizootic losses among Atlantic salmon (Salmo salar) reared in a Nova Scotian hatchery.
Paterson, W.D. ; Douey, D.; Desautels, D. Ottawa, Govt. of Canada, Fisheries and Oceans. Canadian journal of fisheries and aquatic sciences. = Journal canadien des sciences halieutiques et aquatiques. Dec 1980. v. 37 (12). p. 2236-2241. ill. 21 ref. (NAL Call No.: 442.9 C16J).

0062
Juvenile production and yield in quinnat salmon.
Hopkins, C.L. Wellington, New Zealand Ministry of Agriculture and Fisheries. Occassional publication - Fisheries Research Division. 1981. 1981. (30). p. 11-14. ill. Includes 5 ref. (NAL Call No.: SH318.5.A1N4).

0063
Lake Lon could be an ideal smolt release site (determining the profitability of the ocean ranching of salmon).
Johannsson, I. London, Arthur J. Heighway. Fish farming international. Mar 1981. v. 8 (1). p. 12-13. ill. (NAL Call No.: SH151.F5).

0064
Legal aspects of salmon ranching in the Pacific.
McNeil, W.J. London; New York, Academic Press, 1980. Salmon ranching, edited by John Thorpe. p. 383-394. maps.p. 383-394. maps. 5 ref. (NAL Call No.: SH167.S17S26).

0065
Many servings from Scottish salmon farms.
NZFAA. Ronnie, V. Auckland : New Zealand Newspapers. The New Zealand farmer. Nov 22, 1984. v. 105 (22). p. 30, 33-34. ill. (NAL Call No.: DNAL 23 N484).

0066
Modern state and main problems of hatchery rearing of the Atlantic salmon. Russian.
Kazakov, R.V. ; IAndovskaia, N.I.; Leizerovich, Kh.A.; Petrenko, L.A. Moskva : Nauka, 1983. Biologicheskie osnovy razvitiia lososevogo khoziaistva v vodoemakh SSSR / otvetstvennyi redaktor toma O.A. Skarlato. Literature review. p. 138-156. Includes references. (NAL Call No.: SH167.S17B56).

0067
New developments in aquaculture (Shrimp, salmon).
Mason, J.F. Radnor, Pa., Chilton. Food engineering international. July 1980. v. 5 (7). p. 36-37. ill. (NAL Call No.: TP368.F63).

0068
A note on the significance of the olfactory sense upon sexual maturation in Atlantic salmon (Salmo salar L.) (in a fish-farming environment).
Stabell, O.B. ; Refstie, T. Amsterdam, Elsevier Scientific Publishing. Aquaculture. Oct 1980. v. 21 (2). p. 165-170. ill. 19 ref. (NAL Call No.: SH1.A6).

0069
Observations on epidermal papillomata (neoplasms) in wild and cultured Atlantic salmon Salmo salar L. in Finland.
Bylund, G. ; Valtonen, E.T.; Niemela, E. Oxford, Blackwell Scientific. Journal of fish diseases. Nov 1980. v. 3 (6). p. 525-528. ill. 6 ref. (NAL Call No.: SH171.A1J68).

0070
Ocean ranching and enhancement and their relevance to the salmon fishery in New Zealand.
Campbell, J.S. Wellington, New Zealand Ministry of Agriculture and Fisheries. Occassional publication - Fisheries Research Division. 1980. 1980. (27). p. 39-45. (NAL Call No.: SH318.5.A1N4).

0071
On the trial production and use of fish counting system of salmon entering the Moheji River (Japan).
Sano, N. ; Mikami, T.; Akiba, Y.; Anma, G. Hakodate, Japan, The Faculty. Hokkaido Daigaku Suisangaku-bu kenkyu iho. = Bulletin of the Faculty of Fisheries, Hokkaido University. Nov 1981. v. 32 (4). p. 388-399. ill., maps. 3 ref. (NAL Call No.: 414.9 H682).

0072
Oregon and Washington perspectives in salmon ranching (Oncorhynchus sp.).
Allee, B.J. Fairbanks, Alaska : Alaska Sea Grant College Program, Univ. of Alaska, 1982. Proceedings of the Third Alaska Aquaculture Conference, Cordova, Alaska, April 27-28, 1982 / edited by T. Frady. p. 67-74. Includes references. (NAL Call No.: SH35.A62A68 1982).

0073
Otoliths of chinook salmon (Oncorhynchus tshawytscha): daily growth increments and factors influencing their production.
Neilson, J.D.JFRBA. ; Geen, G.H. Hull : Minister of Supply and Services Canada. Canadian journal of fisheries and aquatic sciences = Journal canadien des sciences halieutiques et aquatiques. Oct 1982. v. 39 (10). p. 1340-1347. ill. Includes references. (NAL Call No.: 442.9 C16J).

0074
Oxygen consumption of adult Atlantic salmon (Salmo salar L.) males and females in fish culture.
Kazakov, R.V. ; Khalyapina, L.M. Amsterdam, Elsevier Scientific Publishing. Aquaculture. Aug 1981. v. 25 (2/3). p. 289-292. 12 ref. (NAL Call No.: SH1.A6).

0075
Parasites and invasive diseases of salmon and whitefish in fish hatcheries. Parazity i invazionnye bolezni lososevykh i sigovykh v rybovodnykh khoziaistvakh. RUSSIAN.
; Iziumova, Nina Alekseevna,; ed. Leningrad Gosudarstvennyi naucho-issledovatel'skii institut ozernogo i rechnogo rybnogo Khoziaistva (Gos NIORKH) 1977. 161 p. : ill. -. Bibliography: p. 135-159. (NAL Call No.: 414.9 L54I v.120).

0076
Peculiarities of egg collection of the Pacific salmons on the Sakhalin fish hatcheries (Oncorhynchus, RSFSR-in-Asia). Russian.
Rukhlov, F.N. Moskva : Nauka, 1983. Biologicheskie osnovy razvitiia lososevogo khoziaistva v vodoemakh SSSR / otvetstvennyi redaktor toma O.A. Skarlato. p. 72-84. ill. Includes references. (NAL Call No.: SH167.S17B56).

0077
Phenotypic differences among stocks of hatchery and wild coho salmon, Oncorhynchus kisutch, in Oregon, Washington, and California (Fishes).
Hjort, R.C. ; Schreck, C.B. Seattle : Scientific Publications Office, National Marine Fisheries Service, NOAA. Fishery bulletin - United States, National Marine Fisheries Service. Jan 1982. v. 80 (1). p. 105-119. map. 31 ref. (NAL Call No.: 157.5 B87).

0078
Possible management procedures for increasing production of sockeye salmon smolts in the Naknek River system, Bristol Bay, Alaska.
Ellis, Robert J. Washington Dept. of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service 1979. iii, 9 p. : ill. ; 26 cm. -. Bibliography: p. 9. (NAL Call No.: SH1.U5 No.733).

0079
The potential impact of releasing hatchery coho salmon on wild juvenile chinook salmon in the Siuslaw Estuary (Oregon).
Nicholas, J.W. ; Reimers, P.E.; Hutchison, J.M. Corvallis, Oregon Department of Fish and Wildlife, Research and Development Section. Information report series, fisheries. Dec 1979. Dec 1979. (79-7). 24 p. ill. 9 ref. (NAL Call No.: SH1.I55).

0080
Production of semen by dwarf males of Atlantic salmon and characteristics of its fish-culturing quality (Salmo salar). Russian.
Kazakov, R.V. Leningrad : Institut. Sbornik Nauchnykh Trudov - Gosudarstvennyi nauchno-issledovatel'skii institut ozernogo i rechnogo rybnogo khoziaistva. 1979. v. 139. p. 40-48. Includes references. (NAL Call No.: 414.9 L54I).

0081
Remote straying of salmon (Salmo salar L.) from the Swedish west coast and possible effects on sea ranching operations (Taggings).
Larsson, P.O. Amsterdam : Elsevier Scientific Publishing. Aquaculture. Apr 15, 1984. v. 38 (1). p. 83-87. maps. Includes references. (NAL Call No.: SH1.A6).

0082
Results from breeding investigations with salmon. Resultater fra avlsforsok med laksefisk. NORWEGIAN.
Gjedrem, T. Oslo, Det Tjeneste. Aktuelt - Norway, Landbruksdepartementet, Opplysningstjeneste. 1980. 1980. (1). p. 348-352. (NAL Call No.: S11.N68).

0083
Returning salmon swamp Japanese hatcheries.
Joyner, T. London, Arthur J. Heighway. Fish farming international. Dec 1981. v. 8 (4). p. 13-14. ill. (NAL Call No.: SH151.F5).

0084
The salmon handbook : the life and cultivation of fishes of the salmon family / Stephen Drummond Sedgwick ; illustrated by Robin Ade.
Sedgwick, Stephen Drummond. Great Neck, N.Y. Distributed exclusively by Scholium International c1982. Originally published: London : Andre Deutsch Limited, 1982. New imprint on stamp over the original one -Includes index. xvi, 242 (247) p., (8) p. of plates : ill., maps ; 23 cm. Bibliography: p. 230-242. (NAL Call No.: SH167.S17S4).

0085
Salmon ranching / edited by John Thorpe.
; Thorpe, John E. London New York Academic Press 1980. x, 441 p. : ill. ; 24 cm. Includes bibliographies and index. (NAL Call No.: SH167.S17S26).

0086
Salmon ranching: a growing industry in the North Pacific (Chum salmon, Oncorhynchus keta, Pacific salmon, Salmo salar, economics, Alaska).
McNeil, W.J. Woods Hole : Woods Hole Oceanographic Institution. Oceanus. Spring 1984. v. 27 (1). p. 27-31. ill., maps. Includes references. (NAL Call No.: GC1.035).

0087
Salmon ranching: current situation and prospects.
Thorpe, J.E. London; New York, Academic Press, 1980. Salmon ranching, edited by John Thorpe. p. 395-405.p. 395-405. Bibliography p. 403-405. (NAL Call No.: SH167.S17S26).

0088
Salmon ranching in Alaska (Oncorhynchus gorbuscha, Oncorhynchus kisutch).
McNeil, W.J. London; New York, Academic Press, 1980. Salmon ranching, edited by John Thorpe. p. 13-27. ill. 6 ref. (NAL Call No.: SH167.S17S26).

0089
Salmon ranching in Britain (Salmo salar).
Thorpe, J.E. London; New York, Academic Press, 1980. Salmon ranching, edited by John Thorpe. p. 199-211. ill. map. Bibliography p. 209-211. (NAL Call No.: SH167.S17S26).

0090
Salmon ranching in Iceland.
Isaksson, A. London; New York, Academic Press, 1980. Salmon ranching, edited by John Thorpe. p. 131-156. ill. maps. Bibliography p. 155-156. (NAL Call No.: SH167.S17S26).

0091
Salmon ranching in Ireland (Salmo salar).
Piggins, D.J. London; New York, Academic Press, 1980. Salmon ranching, edited by John Thorpe. p. 187-198. 6 ref. (NAL Call No.: SH167.S17S26).

0092
Salmon ranching in Oregon.
McNeil, W.J. Wellington, New Zealand Ministry of Agriculture and Fisheries. Occassional publication - Fisheries Research Division. 1981. 1981. (30). p. 68-70. (NAL Call No.: SH318.5.A1N4).

0093
Salmon ranching in Oregon (Several species of Oncorhynchus).
Lannan, J.E. London; New York, Academic Press, 1980. Salmon ranching, edited by John Thorpe. p. 47-62. ill. 8 ref. (NAL Call No.: SH167.S17S26).

0094
Salmon ranching in Oregon: State and Federal regulations.
Hornstein, D. Corvallis, Or., The Station. Special report - Oregon Agricultural Experiment Station.Oregon. Agricultural Experiment Station. Jan 1980. Jan 1980. (573). 8 p. (NAL Call No.: 100 OR3M).

0095
Salmon ranching in South America.
Joyner, T. London; New York, Academic Press, 1980. Salmon ranching, edited by John Thorpe. p. 261-276. maps. 9 ref. (NAL Call No.: SH167.S17S26).

0096
Salmon ranching in the Atlantic Maritime Provinces of Canada.
Ritter, J.A. ; Carey, T.G. London; New York, Academic Press, 1980. Salmon ranching, edited by John Thorpe. p. 109-130. ill. maps. Bibliography p. 128-130. (NAL Call No.: SH167.S17S26).

0097
Salmon ranching in Washington State.
Donaldson, L.R. London; New York, Academic Press, 1980. Salmon ranching, edited by John Thorpe. p. 29-45. ill. 8 ref. (NAL Call No.: SH167.S17S26).

0098
The salmonid fishes as a natural livestock (Oncorhynchus, aquaculture techniques).
Donaldson, L.R.SCAMA. ; Joyner, T. New York : Scientific American, Inc. Scientific American. July 1983. v. 249 (1). p. 51-58. ill., maps. (NAL Call No.: 470 SCI25).

0099
Scientific reports of the Hokkaido Salmon Hatchery Hokkaido Sake masu-fu kajo kenkyu hokoku. Text in Japanese with summaries in English. Japanese.
Sapporo, Japan Suisancho, Hokkaido Sake Masu-fu Kajo,. Description based on: No. 34 (Mar. 1980); title from cover. v. : ill. ; 26 cm. (NAL Call No.: SH350.J3S4).

0100
Selected European seafood markets (Export trade, salmon).
Dignon, R.E. Fairbanks : Alaska Sea Grant College Program, Univ. of Alaska, 1983. Proceedings of the International Seafood Trade Conference, September 8-12, 1982, Anchorage, Alaska / B.R. Melteff, conference coordinator. p. 163-165. (NAL Call No.: HD9450.1.I5 1982).

0101
Sex-selective harvesting of pacific salmon: a theoretically optimal solution (Model).
Reed, W.J. Amsterdam, Elsevier. Ecological modelling. Jan 1982. v. 14 (3/4). p. 261-271. Includes 7 ref. (NAL Call No.: QH541.15.M3E25).

0102
Smoltification in the net-pen culture of coho salmon: quantitative genetic analysis (Oncorhynchus kisutch).
Saxton, A.M. ; Hershberger, W.K.; Iwamoto, R.N. Lawrence, Kan. : The Society. Transactions of the American Fisheries Society. May 1984. v. 113 (3). p. 339-347. Includes references. (NAL Call No.: 414.9 AM3).

0103
Solar aquaculture at the Prince Edward Island Ark, Canada (Salmon farming).
MacKay, K.T. ; Van Toever, W. Oxford, Pergamon Press, 1981. Energy conservation and use of renewable energies in the bio-industries : proceedings of the International Seminar on Energy Conservation and the Use of Solar and other Renewable Energies in Agriculture, Horticulture, and Fishculture, held at the Polytechnic of Central London, 15-19 September 1980.International Seminar on Energy Conservation and the Use of Solar and other Renewable Energies in Agriculture, Horticulture, and Fishculture (1980 : Polytechnic of Central London). p. 371-377. Bibliography p. 376-377. (NAL Call No.: TJ810.I49 1980).

0104
The status of salmon aquaculture in Alaska: the present and the future.
Kerns, C. Fairbanks, Alaska : Alaska Sea Grant College Program, Univ. of Alaska, 1982. Proceedings of the Third Alaska Aquaculture Conference, Cordova, Alaska, April 27-28, 1982 / edited by T. Frady. p. 21-25. ill. Includes references. (NAL Call No.: SH35.A62A68 1982).

0105
Straying of adult coho salmon to and from a private hatchery at Yaquina Bay, Oregon (Stock management).
Nicholas, J.W. ; Van Dyke, L. Corvallis : Oregon Department of Fish and Wildlife, Fish Division. Information reports. Dec 1982. Dec 1982. (82-10). 16 p. ill. Includes references. (NAL Call No.: SH1.I55).

0106
Stress-related effects of hatchery rearing density on coho salmon (Oncorhynchus kisutch).
Fagerlund, U.H.M. ; McBride, J.R.; Stone, E.T. Lawrence, Kan., The Society. Transactions of the American Fisheries Society. Sept 1981. v. 110 (5). p. 644-649. 26 ref. (NAL Call No.: 414.9 AM3).

0107
Structure and economics of Soviet and Japanese salmon ranching efforts.
McNeil, W.J. Fairbanks, Alaska : Alaska Sea Grant College Program, Univ. of Alaska, 1982. Proceedings of the Third Alaska Aquaculture Conference, Cordova, Alaska, April 27-28, 1982 / edited by T. Frady. p. 59-66. ill. Includes references. (NAL Call No.: SH35.A62A68 1982).

0108
Studies on the parasite fauna of juvenile Atlantic salmon, Salmo salar L., cultures in fresh water in eastern Scotland.
Wootten, R. ; Smith, J.W. Berlin, Springer International. Zeitschrift fur Parasitenkunde. = Parasitology research. 1980. v. 63 (3). p. 221-231. ill. 13 ref. (NAL Call No.: 442.8 Z33F).

0109
Survival and contribution of 1969-brood fall chinook salmon from Elk River hatchery / Paul E. Reimers and Reese E. Bender.
Reimers, Paul E. Corvallis Oregon Dept. of Fish and Wildlife, Research and Development Section 1979. 17 p. : ill. -. Bibliography: p. 16-17. (NAL Call No.: SH1.I55 No.79-6).

0110
Survival of hatchery-reared Atlantic salmon smolts vaccinated with a Vibrio anguillarum bacterin (Salmo salar).
Baum, E.T. ; Sawyer, E.S.; Strout, R.G. Bethesda : American Fisheries Society. North American journal of fisheries management. 1982. v. 2 (4). p. 409-411. Includes references. (NAL Call No.: SH219.N66).

0111
Temporal use of an Oregon estuary by hatchery and wild juvenile salmon (Oncorhynchus spp.).
Myers, K.W. ; Horton, H.F. New York : Academic Press, 1982. Estuarine comparisons : proceedings of the Sixth Biennial International Estuarine Research Conference, Gleneden Beach, Oregon, November 1-6, 1981 / edited by Victor S. Kennedy. p. 377-392. map. 17 ref. (NAL Call No.: GC96.I57 1982).

0112
Titre distribution patterns of infectious haematopoietic necrosis virus in ovarian fluids of hatchery and feral salmon populations (Oncorhynchus nerka, Oncorhynchus tshawytscha).
Mulcahy, D.JFIDD. ; Pascho, R.J.; Jenes, C.K. Oxford : Blackwell Scientific. Journal of fish diseases. Mar 1983. v. 6 (2). p. 183-188. ill., maps. Includes references. (NAL Call No.: SH171.A1J68).

0113
Trends in the escapement and production of fall chinook and coho salmon in Oregon / Alan M. McGie.
Charleston, Or. Oregon Dept. of Fish and Wildlife, Population Dynamics and Statistical Services Section 1981. On cover: Fish Division, Oregon Department of Fish and Wildlife ~"October 1981.". 44 p. : ill. ; 28 cm. -. Bibliography: p. 37-40. (NAL Call No.: SH1.I55 no.81-7).

0114
U.S.S.R.: salmon ranching in the Pacific (Several species of Oncorhynchus).
Konovalov, S.M. London; New York, Academic Press, 1980. Salmon ranching, edited by John Thorpe. p. 63-89. ill., maps. Bibliography p. 87-89. (NAL Call No.: SH167.S17S26).

0115
The use of a model system for studying seward migration of Deschutes River (hatchery reared) juvenile spring chinook salmon (Oncorhynchus tshawytscha).
Hart, C.E. ; Concannon, G.; Fustish, C.A.; Ewing, R.D. Corvallis, Oregon Department of Fish and Wildlife, Research and Development Section. Information report series, fisheries. 1980. 1980. (80-5). 20 p. ill., map. 10 ref. (NAL Call No.: SH1.I55).

0116
USFWS (U.S. Fish and Wildlife Service) Fish Cultural Development Center Program (McNenny National Fish Hatchery, Abernathy Salmon Cultural Development Center, Bozeman National Fish Hatchery and Development Center, Lamar National Fish Hatchery and Development Center, and the San Marcos National Fish Hatchery and Development Center, San Marcos).
McCraren, J.P. Bethesda, Md., American Fisheries Society. Fisheries. Nov/Dec 1980. v. 5 (6). p. 9-18. ill. (NAL Call No.: SH1.F54).

0117
Variation in semen production of farmed Atlantic salmon and rainbow trout (Salmo salar, Salmo gairdneri).
Gjerde, B. Amsterdam : Elsevier Scientific Publishing. Aquaculture. July 15, 1984. v. 40 (2). p. 109-114. Includes references. (NAL Call No.: SH1.A6).

0118
Wholesale price determination in the salmon market (Fish).
Lent, R.J. Fairbanks : Alaska Sea Grant College Program, Univ. of Alaska, 1983. Proceedings of the International Seafood Trade Conference, September 8-12, 1982, Anchorage, Alaska / B.R. Melteff, conference coordinator. p. 341-361. ill. Includes references. (NAL Call No.: HD9450.1.I5 1982).

0119
World market conditions and the ex vessel prices of Alaska salmon.
Johnston, R.S. Fairbanks, Alaska : Alaska Sea Grant College Program, Univ. of Alaska, 1982. Proceedings of the Third Alaska Aquaculture Conference, Cordova, Alaska, April 27-28, 1982 / edited by T. Frady. p. 115-132. Includes references. (NAL Call No.: SH35.A62A68 1982).

Akiba, Y. 71
Aldrin, J.F. 33
Allee, B.J. 72
Andersen, K. 17
Anma, G. 71
AQCLA. 20, 24, 30, 33, 45, 46
Avault, J.W. Jr. 8
Bailey, J.K. 58
Baiunova, N.N. 6
Barannikova, I.A. 6
Baum, E.T. 110
Becker, C.D. 34
Bender, Reese E. 50
BFPIA. 39
Boustead, N.C. 26
Buzeta, M.I. 58
Bylund, G. 69
Campbell, J.S. 70
Carey, T.G. 96
Chaga, I.L. 11
Chagny, F. 33
Chaney, E. 9
Chernitskii, A.G. 6
CJZOA. 31
Clark, J. 60
Clausen, E. 17
Concannon, G. 115
Cooke, B.W.C. 48
Cross, T.F. 45
Desautels, D. 61
DeVoretz, D. 27
Dickson, T.A. 56
Dignon, R.E. 100
Donaldson, L.R. 2, 97, 98
Douey, D. 61
Drenner, R.W. 41
Dumas, J. 39
ed. 75
Egidius, E. 17
Ellis, Robert J. 78
Ewing, R.D. 115
Fagerlund, U.H.M. 106
Fendrick, J.L. 32
Fickeisen, D.H. 34
Fresh, K. 51
Fridberg, G. 23
Fustish, C.A. 115
Galat, J.R. 19
Geen, G.H. 73
Gjedrem, T. 82
Gjerde, B. 117
Gras, J. 33
Gudefin, Y. 33
Hankin, D.G. 36
Hansen, F. 43
Hanzel, D.A. 41
Hart, C.E. 115
Hartman, J. 28
Hasler, A.D. 35
Heard, W.R. 20
Hershberger, W.K. 102
Hilborn, R. 4
Himsworth, D. 54
Hjort, R.C. 77
Hjul, P. 52
Hopkins, C.L. 62
Hornstein, D. 94
Horton, H.F. 111
Hutchison, J.M. 79
IAndovskaia, N.I. 66
Isaksson, A. 90
Iwamoto, R.N. 102
Iziumova, Nina Alekseevna,. 75
Jenes, C.K. 112
JFIDD. 112
JFRBA. 4, 51, 56, 60, 73
Johannsson, I. 63
Johnston, R.S. 119
Joyner, T. 83, 95, 98
Karedin, E.P. 11
Kazakov, R.V. 13, 21, 66, 74, 80
Keranen, A.L. 53
Kerns, C. 104
Khalyapina, L.M. 74
King, J. 45
Konovalov, S.M. 114
Lamour, F. 18
Lannan, J.E. 93
Larsson, P.O. 81
Lee, A. 32
Leizerovich, Kh.A. 66
Lent, R. 43
Lent, R.J. 118
Leong, J.C. 32
Lindahl, K. 23
MacCrimmon, H.R. 56
MacKay, K.T. 103
Mahnken, C. 7
Martin, R.M. 20
Mason, J.F. 67
McBride, J.R. 106
McCarl, B. 60
McCarl, B.A. 57
McCraren, J.P. 116
McGie, A.M. 5
McNeil, W.J. 64, 86, 88, 92, 107
Mikami, T. 71
Monan, G. 7
Moring, J.R. 42
Mork, O.I. 49
Mulcahy, D. 112
Murza, I.G. 6
Myers, K.W. 111
Naevdal, G. 46
NAWTA. 59
Neilson, J.D. 73
Neitzel, D.A. 34
Nicholas, J.W. 79, 105
Nicholson, B.L. 10
Niemela, E. 69
NZFAA. 65
Paim, U. 47
Pascho, R.J. 112
Paterson, W.D. 61
Pearson, R.E. 9
Perrier, H. 33
Petrenko, L.A. 66
PFCUA. 42
Piggins, D.J. 91
Prentice, E. 7
Prouzet, P. 16
Quinn, T.P. 51
Raa, J. 17
Randall, R.G. 47
Rawson, K. 28
Reed, W.J. 101
Refstie, T. 31, 68
Reimers, P.E. 79
Reimers, Paul E. 109
Rettig, R.B. 4, 57
Ritter, J.A. 96
Romanov, N.S. 30
Ronnie, V. 65
Roys, R.S. 44, 59
Rukhlov, F.N. 76
Rydevik, M. 23
Sandercock, F.K. 15
Sano, N. 71
Saunders, R.L. 58
Sawyer, E.S. 110
Saxton, A.M. 102
SCAMA. 98
Schneider, R. 10
Schreck, C.B. 55, 77
Scott, C.D. 38
Sedgwick, Stephen Drummond. 54

Semenkova, T.B. 6
Sims, C. 7
Skarlato, O. A. 12
Smith, J.W. 108
Sosiak, A.J. 14
Sower, S.A. 55
Stabell, O.B. 68
Stahl, G. 24
Stephan, G. 18
Stokes, R.L. 29
Stone, E.T. 106
Strout, R.G. 110
Sullivan, J.R. 1
TAFSA. 14, 34, 36, 55
Taylor, G. 37
Thorpe, J.E. 22, 87, 89
Thorpe, John E. 85
Torrissen, K.R. 25
Torrissen, O.J. 25
Valtonen, E.T. 53, 69
Van Dyke, L. 105
Van Toever, W. 103
Vinyard, G.L. 41
Wahle, R.J. 9
Waknitz, W. 7
Walker, K.D. 4
Watt, W.D. 38
Wertheimer, A.C. 20
White, W.J. 38
Williams, J. 7
Wootten, R. 108
Worlund, D.D. 37
Young, R. 40
Youngman, S. 32

AGRICOLA

FILE 110

Contains citations to documents added to the Library's collections from 1970 through 1978.

0001
Estimated costs and benefits of water supply improvements at the Little White Salmon National Fish Hatchery /; William G. Brown and Douglas M. Larson . -.
Brown, William G. Corvallis : Agricultural Experiment Station, Oregon State University,. 1977. Cover title. Includes bibliographies. Vol. 23 p. -: (NAL Call No.: 100 Or3M No.487).

0002
Annual report, Mad River Salmon and Steelhead Hatchery, first year of operation 1970-71 (Anadromous Fisheries Branch Administrative Report No. 73-12).
Will, R D. Sacramento. Apr 1973. CUA. Vol. 15 p.: (NAL Call No.: DOCS CUA).

0003
Salmon and trout farming in Norway /; By David J. Edwards. -.
Edwards, David John. Farnham, Surrey : Fishing News Books,. 1978. Bibliography: p. 185-186. Includes index. Vol. xii, 195 p.: pp. ill., chiefly plates. (NAL Call No.: SH167.S17E4).

0004
Salmon fry production in a gravel incubator hatchery, Auke Creek, Alaska, 1971-72 /; By Jack E. Bailey and Sidney G. Taylor. -.
Bailey, Jack E. Seattle : U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service,. 1974. Vol. iv, 13 p.: pp. ill. ; 26 cm. - (NAL Call No.: SH11.A1 No.3).

0005
Survival, production, and yield of trout and chinook salmon in the Lemhi River, Idaho /; By T. C. Bjornn. -.
Bjornn, T C. Moscow : Forest, Wildlife and Range Experiment Station, University of Idaho,. 1978. A final report federal aid to fish restoration project F-49-R salmon and steelhead investigations. Bibliography: p. 57. Vol. 57 p.: pp. ill., diagrs. - (NAL Call No.: 99.9 ID14B No.27).

0006
Caveats concerning evaluation of effects of logging on salmon production in Southeastern Alaska from biological information.
Pella, J J; Myren, R T. Northwest Sci. May 1974. Vol. 48 (2): pp. 132-144. Ref. (NAL Call No.: 470 N81).

0007
Aquaculture facilities located at hidden falls lake and sandy bay.; Construction of salmon incubation facilities on national forest lands on baranof island, alaska.
Sitka, Alaska : Department Of Agriculture, Forest Service. (ceq: April 29, 1977). Usda employees request documents from national agricultural library others order from information resources press, 2100 m street, n.w., suite 316, washington, d.c. 20037. ENV. Vol. 57 pages + 3 appendixes: (NAL Call No.: ENV 77-0731F).

0008
Does salmonid aquaculture really pay? Coho salmon, costs and returns, fish farming .
Gates, J M. R I Resour. Spring/Summer 1978. Vol. 24 (2): pp. 12-13. (NAL Call No.: 100 R342).

0009
Economics of surplus hatchery salmon disposal in Oregon.
Roberts, Kenneth J. Oreg State Univ Sea Grant Marine Advisory Prog SG 17,. 1972. AGE. Vol. 20 p: (NAL Call No.: 72.9905910).

0010
Effects of kraft mill effluents on juvenile salmon production in laboratory streams.
Seim, W K; Lichatowich, J A; Ellis, R H; Davis, G E. Water Res. 1977. Vol. 11 (2): pp. 189-196. Ref. (NAL Call No.: TD420.W3).

0011
Exploitation, survival, growth, and cost of stocked silver salmon in Lake Berryessa, California. Fish culture .
Wigglesworth, K A; Rawstron, R R. Calif Fish Game. Jan 1974. Vol. 60 (1): pp. 36-43. Ref. (NAL Call No.: 410 C12).

0012
Trout and salmon culture :; Hatchery methods / by Earl Leitritz and Robert C. Lewis. -.
Leitritz, Earl. Long Beach : State of California, Dept. of Fish and Game,. 1976. Bibliography : p. 174-177. Vol. 197 p.: pp. ill.; 23 cm. - (NAL Call No.: 414.9 C12F No.164).

0013
Improved economic evaluation of commercially and sport-caught salmon and steelhead of the Columbia River.
Brown, W G; Larson, D M; Johnston, R S; Wahle, R J. Spec Rep Oreg Agric Exp Stn. Aug 1976. AGE. Vol. 463, 30 p: (NAL Call No.: 100 OR3M).

0014
The improvement of returns of one-years salmon smolts at the Kollafjordur Fish Farm 1971-73.
Isaksson, A. Isl Landbunadar Rannsok. 1976. Vol. 8 (1/2): pp. 19-26. (NAL Call No.: S11.I8).

0015
Netarts Bay Chum salmon hatchery: an experiment in ocean ranching.
Lannan, J E. Stn Bull Oreg Agric Exp Stn. Nov 1975. Vol. 621, 28 p. Map.: (NAL Call No.: 100 OR3).

0016
Et terapiforsok ved et utbrudd av lipoid leverdegenerasjon (LLD) hos laks i oppdrett; An outbreak of lipoid liver degeneration (LLD) in Atlantic salmon Salmo salar in a fish farm and attempts to cure the disease. NOR.
Roald, S O. Nord Veterinaermed. Apr/May 1976. Vol. 28 (4/5): pp. 243-249. Plate. Ref. Eng. sum. (NAL Call No.: 41.8 N813).

0017
Materialy Vserossiiskogo soveshchaniia po probleme "Razvitie intensivnykh ozernykh khoziaistv na baze vyrashchivaniia sigovykh ryb", 1974g /; Pod redaktsiei G. A. Golovkova i A. N. Kuz'mina. --; Proceedings of the All-Russian Meeting on the Problem "Development of Intensive Lake Industries on the Basis of Salmon Breeding. RUS.
Golovkov, G A; Kuz'min, Aleksandr IAkovlevich. Leningrad : GosNIORKh,. 1976. At head of title: Ministerstvo rybnogo khoziaistva RSFSR. Gosudarstvennyi nauchno-issledovatel'skii institut ozernogo i rechnogo rybnogo khoziaistva, GosNIORKh. Includes bibliographies. Vol. 120 p.: (NAL Call No.: SH349.V8).

0018
Preliminary results from the 1973 salmon tagging experiments at the Kollafjordur Experimental Fish Farm.
Isaksson, A. Isl Landbunadar Rannsok. 1976. Vol. 8 (1/2): pp. 14-18. (NAL Call No.: S11.I8).

0019
Report on pilot aquaculture system using domestic wastewaters for rearing Pacific salmon smolts.
Allen, G H; Dennis, L. Environ Prot Technol Ser EPA U S Environ Prot Agency. June 1974. Vol. 660/2-74-041: pp. 162-198. Map. Ref. (NAL Call No.: TD172.E57).

0020
The results of salmon tagging experiments at the Kollafjordur Experimental Fish Farm from 1970 through 1972.
Isaksson, A. Isl Landbunadar Rannsok. 1976. Vol. 8 (1/2): pp. 3-13. (NAL Call No.: S11.I8).

0021
Fish of rare breeding :; Salmon and trout of the Donaldson strain / Neal O. Hines. --; 1st ed. -.
Hines, Neal O. Washington : Smithsonian institution press,. 1976. Bibliography: p. 162-167. Vol. 167 p.: pp. ill. (NAL Call No.: SH155.5.H56).

0022
Cannery creek aquaculture site and cannery creek timber sale, chugach national forest.; Timber sale and salmon fish hatchery near cannery creek in chugach national forest, alaska.
Anchorage, Alaska : Department Of Agriculture. Forest Service. (epa: March 28, 1978). Usda employees request documents from national agricultural library others order from information resources press, 2100 m street, n.w., suite 316, washington, d.c. 20037. ENV. Vol. 112 pages: (NAL Call No.: ENV 78-0610F).

0023
Vibriosis, a common disease of Pacific salmon cultured in marine waters of Washington.
Novotny, A J; Harrell, L W; Nyegaard, C W. Bull Wash State Univ Ext Serv. Sept 1975. Vol. 663, 8 p.: (NAL Call No.: 275.29 W27P).

Allen, G H. 19
Bailey, Jack E. 4
Bjornn, T C. 5
Brown, W G. 13
Brown, William G. 1
Davis, G E. 10
Dennis, L. 19
Edwards, David John. 3
Ellis, R H. 10
Gates. J M. 8
Golovkov, G A. 17
Harrell, L W. 23
Hines, Neal O. 21
Isaksson, A. 14, 18, 20
Johnston, R S. 13
Kuz'min, Aleksandr IAkovlevich. 17
Lannan, J E. 15
Larson, D M. 13
Leitritz, Earl. 12
Lichatowich, J A. 10
Myren, R T. 6
Novotny, A J. 23
Nyegaard, C W. 23
Pella, J J. 6
Rawstron, R R. 11
Roald, S O. 16
Roberts, Kenneth J. 9
Seim, W K. 10
Wahle, R J. 13
Wigglesworth, K A. 11
Will, R D. 2

U.S. Department of Agriculture
National Agricultural Library
Beltsville, Maryland 20705

OFFICIAL BUSINESS
Penalty for Private Use, $300

Postage and Fees Paid
United States
Department of Agriculture
AGR-101